



Washington State Department of Health  
Construction Review Services  
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[www.doh.wa.gov/hsqa/fsl/crs.htm](http://www.doh.wa.gov/hsqa/fsl/crs.htm)

## REVIEW CHECKLIST FOR A POOL

This checklist is provided to facilitate department plan review of pool facilities. Please provide the information requested and complete the appropriate sections for the pool facility design.

Plans and specifications are to be submitted by the design engineer or architect with their cover letter and be stamped with their seal. Plans are to be drawn to scale in sufficient detail to illustrate construction. Plans shall include:

### I. POOL DESIGN PLANS

1. A vicinity sketch noting pool in relation to surrounding area and facilities.
2. Both plan and cross sectional views of the pool. Cross sectional views should provide information on the radius of curvature of the pool at shallow, breakpoint and deep ends of the pool.
3. Detailed view of the equipment room and equipment within it noting sufficient room is provided to access equipment for proper operation and maintenance.
4. Dimensional drawings of pool bottom and sidewalls.
5. Specifications on required equipment components.
6. Piping schematic showing piping, pipe size, inlets, main drains, overflow channel or skimmers, vacuum fittings and all other appurtenances connected to the pool piping system.
7. Details on barrier construction.
8. Details on decking dimensions noting slope direction and location of drains.
9. A functional program describing the staffing levels and uses of this pool.

### II. GENERAL POOL INFORMATION

Name of facility: \_\_\_\_\_ CRS# \_\_\_\_\_  
Location: \_\_\_\_\_ City: \_\_\_\_\_  
Owner's Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Owner's address: \_\_\_\_\_ City: \_\_\_\_\_  
Pool contractor's name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Design Engineer or Architect name: \_\_\_\_\_ Phone: \_\_\_\_\_

New pool ☐ Modification ☐ Addition ☐ Outdoor ☐ Indoor ☐

### **III. SPECIFIC POOL DESIGN CHARACTERISTICS**

- Pool shape: Rectangular ☐ Oval ☐ Kidney ☐ Other ☐ specify \_\_\_\_\_
- Pool dimensions: Length\_\_\_\_, Width\_\_\_\_. Pool Depth range: shallow\_\_\_\_, deep \_\_\_\_.
- Total surface area of pool: \_\_\_\_\_. Area < 5 ft deep \_\_\_\_\_ ft.<sup>2</sup>: Area > 5 ft deep \_\_\_\_ ft.<sup>2</sup>
- Pool capacity \_\_\_\_\_ gallons.
- Pool location is > \_\_\_\_ ft. from any pump house, trees or other structures.

#### Pool surface construction material:

- Painted concrete ☐; Plaster ☐; Fiberglass☐; Tile☐; Painted☐ Metal☐ Other ☐ (please specify)\_\_\_\_\_. Pool color is \_\_\_\_\_.
- Pool decking construction material:\_\_\_\_\_: Type of non-slip finish provided: \_\_\_\_\_
- Is slope of deck drainage noted on plans?☐ Note rate of slope\_\_\_\_/ ft. (Min 1/4 "/ft, max 1/2 "/ft.)
- On pools = or > 1500 square feet (SF) how many SF of deck are provided?\_\_\_\_\_ SF.

#### Barrier (fencing) protection:

- Note minimum barrier height \_\_\_\_\_ .
- Note type of construction of barrier with information on maximum opening widths to prevent means for access. If greater than 45 inches between tops of horizontal members of barrier, can go maximum width of openings so as not to allow a four-inch sphere to pass. If tops of horizontal members are less than 45 inches apart maximum opening width is 1 & 3/4 inches.
- Height to access latch is \_\_\_\_\_ inches.
- Is gate or door designed to be self-closing, self-latching?\_Yes ☐ No ☐.
- Are gates or doors lockable for periods of non-use? Yes ☐ No ☐

#### Pool floor slopes:

- What are the pool floor slopes from the shallow depth to 5 1/2 feet? \_\_\_\_\_.
- At transition points changing from shallow to deep depths where uniform slopes are not maintained, provide information on the slope change in this transition zone.
- Do drawings provide information on pool wall to floor interfaces? ☐ Are the radius of curvatures noted on the shallow, breakpoint and deep ends of the pool?☐

#### Diving and slides:

- Does this pool provide boards, platforms, or have deep areas intended for diving? ☐. Are specifications provided noting the diving area in conformance with the requirements for diving areas ☐.
- What is being provided around the pool perimeter for handholds? \_\_\_\_\_
- Does pool have diving boards ☐, platforms ☐ starting blocks ☐ or water slides? ☐ Are their locations specified on the plans? ☐ Is design specification stipulated to ensure such are put in according to manufacturer's requirements?
- If diving board is used provide information on tread surface, handrails and guardrails specifications or plans.
- If slide is used show evidence that manufacturer approves for use on commercial facilities, conforms to CPSC standards, and/or complies with WAC 248-97.

#### Ladders and steps:

- Are locations of ladders or steps noted on the drawings? \_\_\_\_\_
- Where stairs are provided note: Height of steps \_\_\_\_\_"; width of steps \_\_\_\_\_";
- Location of handrail on drawing? ☐
- Is a contrasting color provided on stair tread edge and specified in the plans? ☐

#### Bather load:

- Maximum bathing load designed for this facility is \_\_\_\_\_ people.

#### Recirculation system:

- Minimum flow needed to maintain 6-hour turnover is \_\_\_\_\_ gpm.
- Provide appropriate calculations and assumptions to determine both pump rates:
- Pump capacity is designed to produce \_\_\_\_\_ gpm with clean filter and \_\_\_\_\_ gpm with filter dirty (just prior to backwash).
- Is copy of pump curve provided in specifications? \_\_\_\_\_. Is pump above \_\_\_\_\_ or below \_\_\_\_\_ pool water level?
- Is line size of recirculation system provided on the drawings, with location of all valves to provide for proper maintenance and use of equipment? ☐.
- Are inlets and outlets of pool located on the plans? ☐
- Number of inlets? \_\_\_\_\_. Flow capacity designed for each inlet is \_\_\_\_\_ gpm.
- Number of outlets? \_\_\_\_\_.

- Are a minimum of two main drains indicated on the plans with a minimum spacing of 6 feet?\_\_\_\_\_.
- Specify number of square inches of opening on each main drain.\_\_\_\_\_ in.<sup>2</sup>.
- Specify maximum width of openings on main drain. \_\_\_\_\_ (Maximum of 1/2 inch).
- Determine maximum velocity through main drains assuming 100 % of maximum pump flow is going through the drains. \_\_\_\_\_fps (Maximum 1.5fps).
- Maximum pipe flow through suction or valved discharge lines is \_\_\_\_\_ fps. Maximum pipe flow through discharge lines, downstream from any valved areas is \_\_\_\_\_ fps.
- Name of public water supply serving this pool facility?\_\_\_\_\_.
- Do drawings note the location where make-up water is introduced into the swimming pool and how it is protected from backflow? \_\_\_\_\_.
- Are pool depth markings provided at the deck and on the sides of the pool? \_\_\_\_\_. Is spacing of the markings \_\_\_\_\_ noted?\_\_\_\_\_
- Are safety (float) lines or marking lines (stripe on pool sides & bottom) provided and shown on the plans at \_\_\_\_\_ transition point from shallow to deep areas of pools not having uniform slope?\_\_\_\_\_.
- Equipment room: Does drawing of equipment room adequately demonstrate that there is a minimum three foot working area to access equipment for proper operation?\_\_\_\_\_. Are drains specified in equipment room?\_\_\_\_\_, lighting (min20ftcdl)\_\_\_\_\_, ventilation\_\_\_\_\_, is room lockable.☐ One hour occupancy separation if over 400,000 BTU ☐

### **TREATMENT SYSTEM:**

#### **Pump & strainer:**

- Is a pump strainer provided?
- Is any valving needed and shown to isolate strainer for routine maintenance?
- Does pump have self-priming capability if above pool water level?

#### **Filter:**

- Type: DE☐ Sand☐ Cartridge☐ Other☐ (Specify)\_\_\_\_\_.
- Specify type of filter \_\_\_\_\_NSF approved? ☐
- Number of square feet per filter is \_\_\_\_\_ SF. Number of filters used \_\_\_\_\_.
- Maximum filter application rate with pump clean is \_\_\_\_\_g/SF, Minimum application rate with filter dirty is \_\_\_\_\_g/SF.
- Are two gauges provided to measure differential pressure across the filter?☐. Are locations noted in plans?☐.

- Note location on plans and range of flowmeter in specifications.\_\_\_\_\_
- Are means provided for air relief on filters?☐. If using a separation tank with a DE filter, are instructions provided to warn operator to release air prior to opening?\_\_\_\_\_

#### Disinfection:

- Type: Chlorine ☐ Bromine ☐ Other ☐ (specify)\_\_\_\_\_.
- Note type of material being fed: gas ☐ liquid ☐; solid ☐.
- Note number of pounds of disinfectant able to be added per day with the feeding equipment. \_\_\_\_\_ pounds/day.
- Note type of feeding equipment to be installed.\_\_\_\_\_.
- If using liquid or solid feed material\_\_\_\_\_ NSF approved.☐.
- If using gas chlorine: ☐
  1. Note location of separate sealed room, with door opening to out-of-doors on plans. Note prevailing wind direction in relation to the pool facility (including air intake structures for buildings) and surrounding area.
  2. Provide: Sign on door.
  3. Mechanical exhaust at one air change per minute, remote or door activated switch to turn on fan, means to exhaust from floor of room, means for make-up air to room across breathing zone of operator, screened chlorinator vent,
  4. Note type of breathing protection (self-contained breathing apparatus).
  5. Vacuum injection chlorine systems, with vacuum-actuated cylinder regulators, integral backflow and anti-siphon protection at the injector.
  6. Taring scales, means for automatic shutoff when pool flow is interrupted, means to store cylinders securely, valve-stem cylinder wrench on cylinders, note size of cylinders to be used.

#### Chemical feeders:

- Are feeders provided for controlling pH? (Required on pools 50,000 gals or more, or if feeding caustic soda or CO<sub>2</sub>).
- Specifications on the feeding equipment attached☐.

#### Heaters:

- If using heater requiring pilot light, is pilot light readily accessible? Specify equipment to be installed in accordance with NEC and UMC.

#### Ventilation:

- On indoor pools, specify facility will be installed in conformance with ASHRAE standards for pool facilities. See the facility specific WAC for additional or different requirements.

## OTHER PROVISIONS

### Testing equipment:

- Provide information on type of testing equipment provided in conjunction with water quality and chemistry control of pool water.

### Chemical storage:

- Provide information on placement of chemicals, to ensure storage is in conjunction with manufacturer's recommendations.

### Restrooms, locker rooms & plumbing fixtures:

- Note location and size of locker room facility and location and number of plumbing fixtures provided.
- Note provisions to prevent water temperature in showers from exceeding 110 F..
- Note location of drains within facility and type of non-slip surface on floor.

### Lighting:

- Provide information on minimum lighting to be provided around the pool & deck, locker room, & equipment room.
- In facilities with locker rooms and walkway areas, note protective shielding provided on lights.
- Note specifications on emergency lighting on indoor pool facilities.

### Emergency equipment: Note equipment provided including:

- Phone or other emergency medical service response means.
- First aid kit.
- Two blankets.
- Backboard (where required).
- Reaching poles.
- Life hook.
- Throwing buoy, heaving jug or line.
- Rescue tube or buoy (where required).

Lifeguard chairs: where required ☐.

Signs: Note provisions to provide signage in conformance with regulation. Providing a copy of the proposed language is desired.

Foodservice: All foodservice facilities must comply with Chapter 246-215 Food Service Sanitation. Have plans been submitted and approved? Yes ☐ No ☐ NA ☐

Drinking fountains: When required. ☐

Footbaths: Prohibited

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